CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.01/LR/CSR-2/763e/CEMENT/2014-15 Date: 16.02.2015

TEST REPORT ON CEMENT

*** CUSTOMER**	:	**Asst. Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
***AGENCY**	:	**Mr. Lingaraju,** No.95, 5th Cross, C.T. Bed, B.S.K. 2nd Stage, Bangalore.
***NAME OF THE WORK**	:	Construction of Dhobhi ghat near yelahanka lake in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.
***REFERENCE**	:	AEE/BBMP/YSD/AE-1/59/2014-15 Dated: 12.02.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	12.02.2015
PERIOD OF TESTING	:	12.02.2015 to 16.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.01/LR/CSR-2/763e/SAND-Gradation/2015-16 : 16.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Lingaraju,**
No.95, 5th Cross, C.T. Bed, B.S.K. 2nd Stage, Bangalore.

*** Name of Work** : Construction of Dhobhi ghat near yelahanka lake in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-1/59/2014-15 Dated: 12.02.2015

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates

Sample Received on : 12.02.2015

Date of Testing : 16.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.50	90-100	90-100	90-100	95-100
2.36	72.50	60-95	75-100	85-100	95-100
1.18	49.50	30-70	55-90	75-100	90-100
600 Micron	25.00	15-34	35-59	60-79	80-100
300 Micron	11.00	5-20	8-30	12-40	15-50
150 Micron	4.10	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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Job No.: CTCE/BBMP/W.No.01/LR/CSR-2/763e/AGG/GR/2015-16 : 16.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Lingaraju,**
No.95, 5th Cross, C.T. Bed, B.S.K. 2nd Stage, Bangalore.

*** Name of Work** : Construction of Dhobhi ghat near yelahanka lake in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-1/59/2014-15 Dated: 12.02.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm)

Sample Received on : 12.02.2015

Date of Testing : 16.02.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.85	95-100	85-100
20	39.35	30-70	0-20
10	14.85	10-35	0-5
4.75	1.85	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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Job No.: CTCE/BBMP/W.No.01/LR/CSR-2/763c/AGG/GR/2015-16 : 16.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

Customer : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Mr. Lingaraju,**
No.95, 5th Cross, C.T. Bed, B.S.K. 2nd Stage, Bangalore.

Name of Work : Construction of Dhobhi ghat near yelahanka lake in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-1/59/2014-15 Dated: 12.02.2015

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm)

Sample Received on : 14.02.2015

Date of Testing : 16.02.2015

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	97.00	95-100	85-100
10	27.90	25-55	0-20
4.75	3.90	0-10	0-5

*Information is furnished by the Customer/Representative.

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Remarks : This sample is under Graded specific limits

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.01/LR/CSR-2/763e/CC Solid Block/2014-15 : 09.03.2015

TEST REPORT ON SOLID CONCRETE BLOCKS

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Lingaraju,**
No.95, 5th Cross, C.T. Bed, B.S.K. 2nd Stage, Bangalore.

*** Name of the Work** : Construction of Dhobhi ghat near yelahanka lake in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/YSD/AE-1/59/2014-15 Dated: 12.02.2015

Sample Received on : 06.03.2015

Date of Testing : 09.03.2015

Size of Blocks : 400mm x 200mm x 200mm

Cross Sectional Area : 80000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 08

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	34.62	259.6	3.25	Minimum required Compressive Strength of Individual Units 3.20 N/mm^2
2	Block 2	35.15	260.5	3.26	
3	Block 3	36.20	261.2	3.27	
4	Block 4	35.15	262.2	3.28	
5	Block 5	34.85	263.1	3.29	
6	Block 6	35.62	260.4	3.26	
7	Block 7	34.96	265.1	3.31	
8	Block 8	35.82	260.5	3.26	

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VISHWANATH .C
Quality Manager

AE-1
AEE

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.01/LR/CSR-2/763e/CUBE/2015-16

15.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Lingaraju,**
No.95, 5th Cross, C.T. Bed, B.S.K. 2nd Stage, Bangalore.

*** Name of the work** : Construction of Dhobhi ghat near yelahanka lake in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/YSD/AE-1/59/2014-15 Dated: 12.02.2015

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{15}

Compressive Strength as on : 28th day

Sample Received on : 18.03.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.03.2015	15.04.2015	8.109	360.2	16.01
2	18.03.2015	15.04.2015	8.225	369.5	16.42
3	18.03.2015	15.04.2015	8.340	389.6	17.32

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VISHWANATH .C
Quality Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.01/LR/CSR-2/763e/CUBE/2015-16

18.05.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer** : **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

*** Agency** : **Mr. Lingaraju,**
No.95, 5th Cross, C.T. Bed, B.S.K. 2nd Stage, Bangalore.

*** Name of the work** : Construction of Dhobhi ghat near yelahanka lake in Ward No.01 of Yelahanka Sub Division, BBMP, Bangalore.

*** Reference** : AEE/BBMP/YSD/AE-1/59/2014-15 Dated: 12.02.2015

*** Sample ID** : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

*** Grade of Concrete** : M_{20}

Compressive Strength as on : 28th day

Sample Received on : 20.04.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.04.2015	18.05.2015	8.155	478.3	21.26
2	20.04.2015	18.05.2015	8.275	499.3	22.19
3	20.04.2015	18.05.2015	8.395	516.7	22.96

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VISHWANATH .C
Quality Manager

AE

AEE

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com